

# Pefachrome<sup>®</sup> PCa3297

**Application:** Sensitive chromogenic peptide substrate with significantly improved selectivity for activated protein C. Protac<sup>®</sup> (pat. protein C activator from Pentapharm) does not cleave this substrate, therefore no background absorption is observed with this substrate.

**Formula:** Pyr-CHG-Arg-pNA·AcOH

**Principle:** Protein C + Protac<sup>®</sup> ==> Protein Ca

Pyr-CHG-Arg-pNA + PCa ==> Pyr-CHG-Arg-OH + pNA + PCa

**MW:** 604.7

**K<sub>M</sub>:** 0.899 mM

**V<sub>max</sub>:** 0.014 μmol/min

**Storage:** May be used by the expiry date given on the label when stored unopened, protected from moisture, in the dark, 2-8°C. Avoid contamination of the reagents by micro-organisms.

Shipment of product does not require cooling during the time of transportation.

**Assay:** Suggested protocol for the determination of Protac<sup>®</sup>-activated protein C:

0.200 ml Protac <sup>®</sup> (0.5 units/ml) 0.025 ml plasma (ISTH Lot 1; Immuno) => incubate for 6 min at 37°C 1.600 ml 50 mM Tris-imidazole buffer pH 8.4, 300 mM NaCl 0.200 ml incubated plasma 0.200 ml Pefachrome <sup>®</sup> PCa3297 (4 mM in water) => Determination of ΔOD/min at 405 nm
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**References:** Stocker K, Fischer H, Meier J.  
Practical application of the protein C activator Protac<sup>®</sup> from *Agkistrodon contortrix* venom. *Folia Haematol* 1988; 115: 260-64.

Takahashi H, Hanano H, Tatewaki W, Shibata A.  
Fast functional assay of protein C in whole plasma using a snake venom activator: Evaluation in patients with congenital and acquired protein C deficiencies.  
*Clin Chim Acta* 1988; 175: 217-22.

**Package size:** Vial containing 25 mg  
Bulk [g]

**Code:** 089-08

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